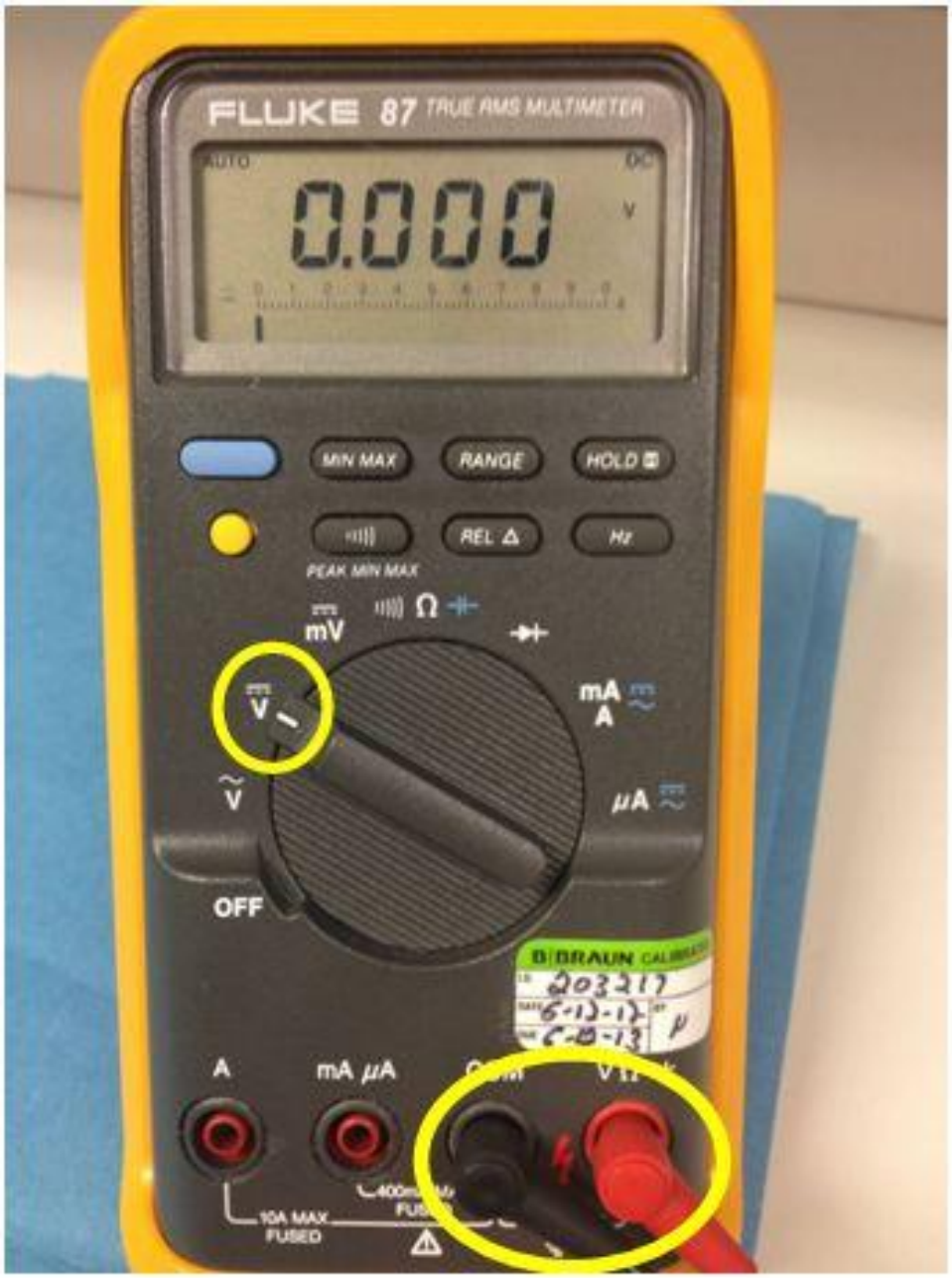
HNS-12 Voltage:

Purpose – To ensure battery is delivery adequate voltage to the stimulating units.

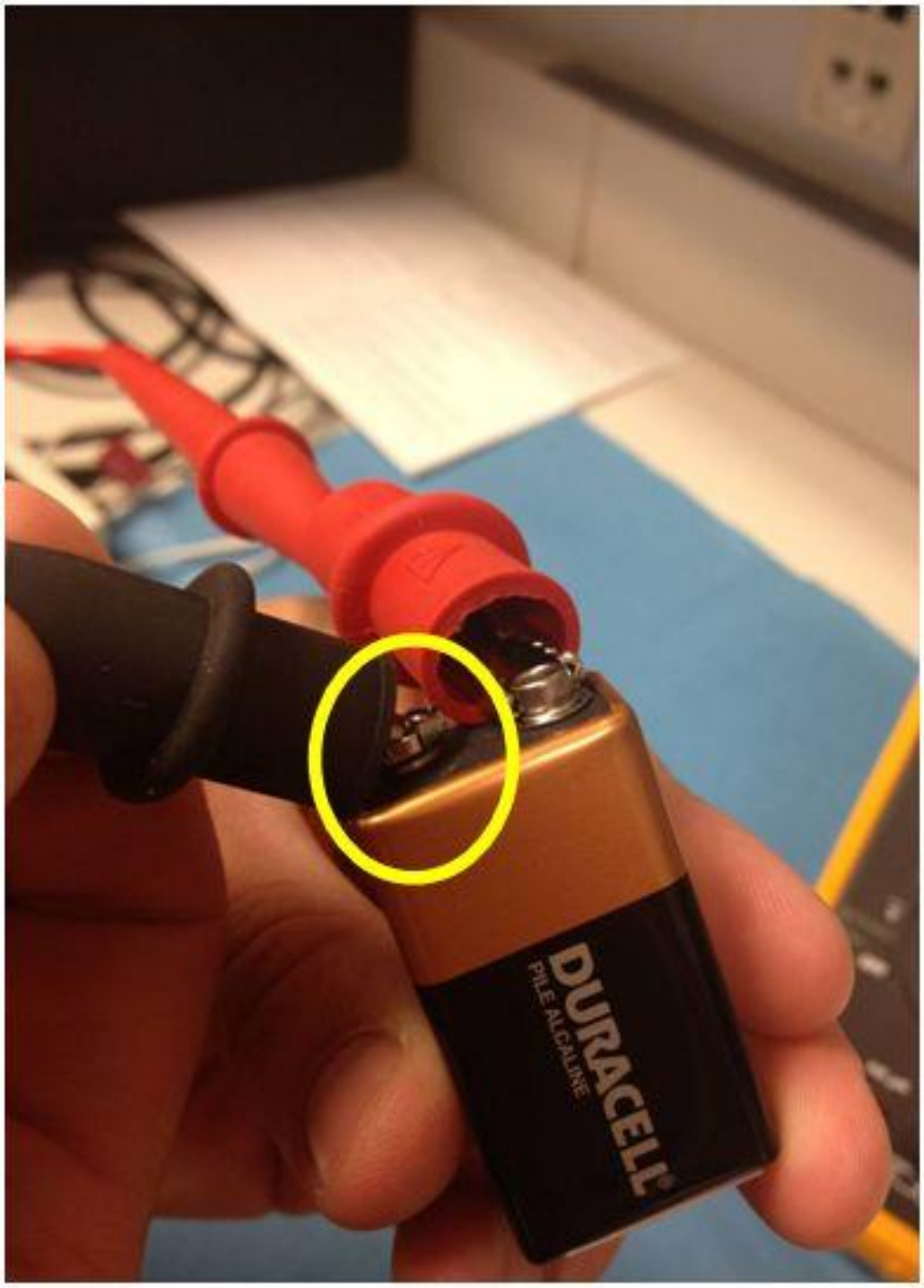
Test 1: Voltage

Ensure Multimeter is turned on to measure voltage.
Ensure leads are connected properly.
Black indicates Ground/Negative.



Attach positive lead (red) to positive terminal of battery.

Attach negative lead (black) to negative terminal of battery.

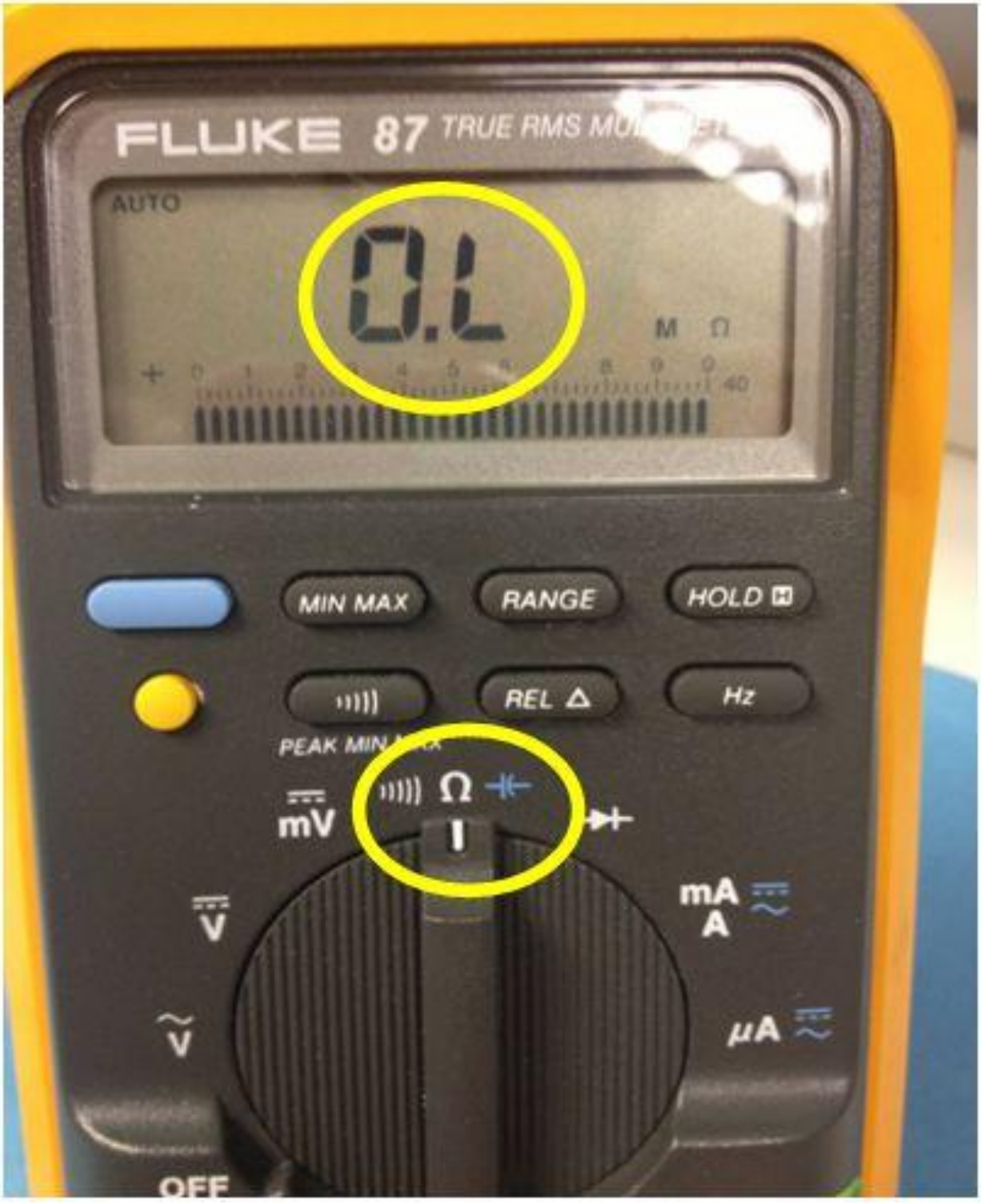


Voltage measurement should be displayed.

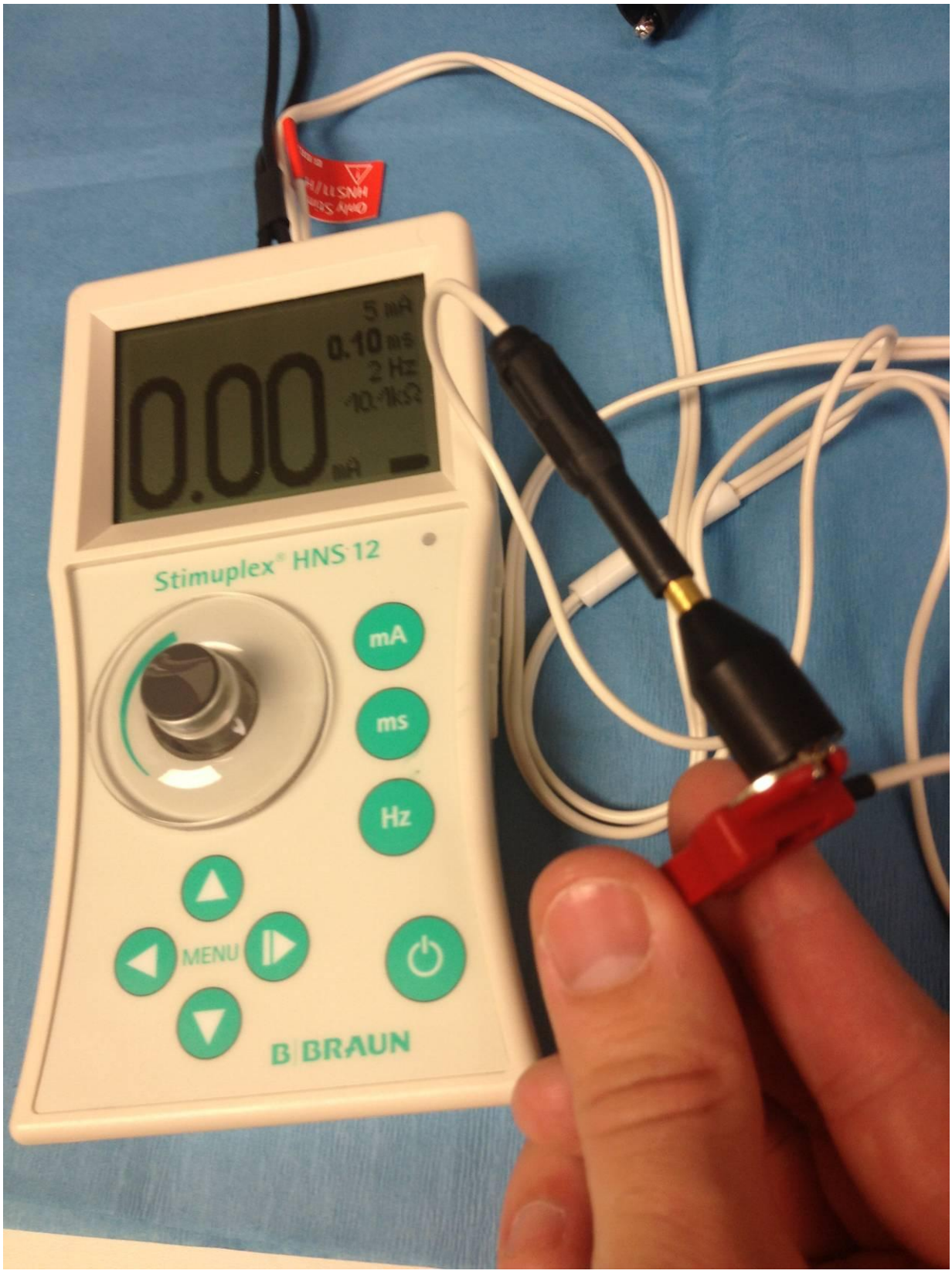
- If no measurement is display, recheck cable connectors.
- If measurement is less than 7 Volts, it is recommended to change the battery.

HNS-12 Resistance:

Purpose – To ensure the entry cable measures the proper resistance and there is no damage that would negatively affect performance.

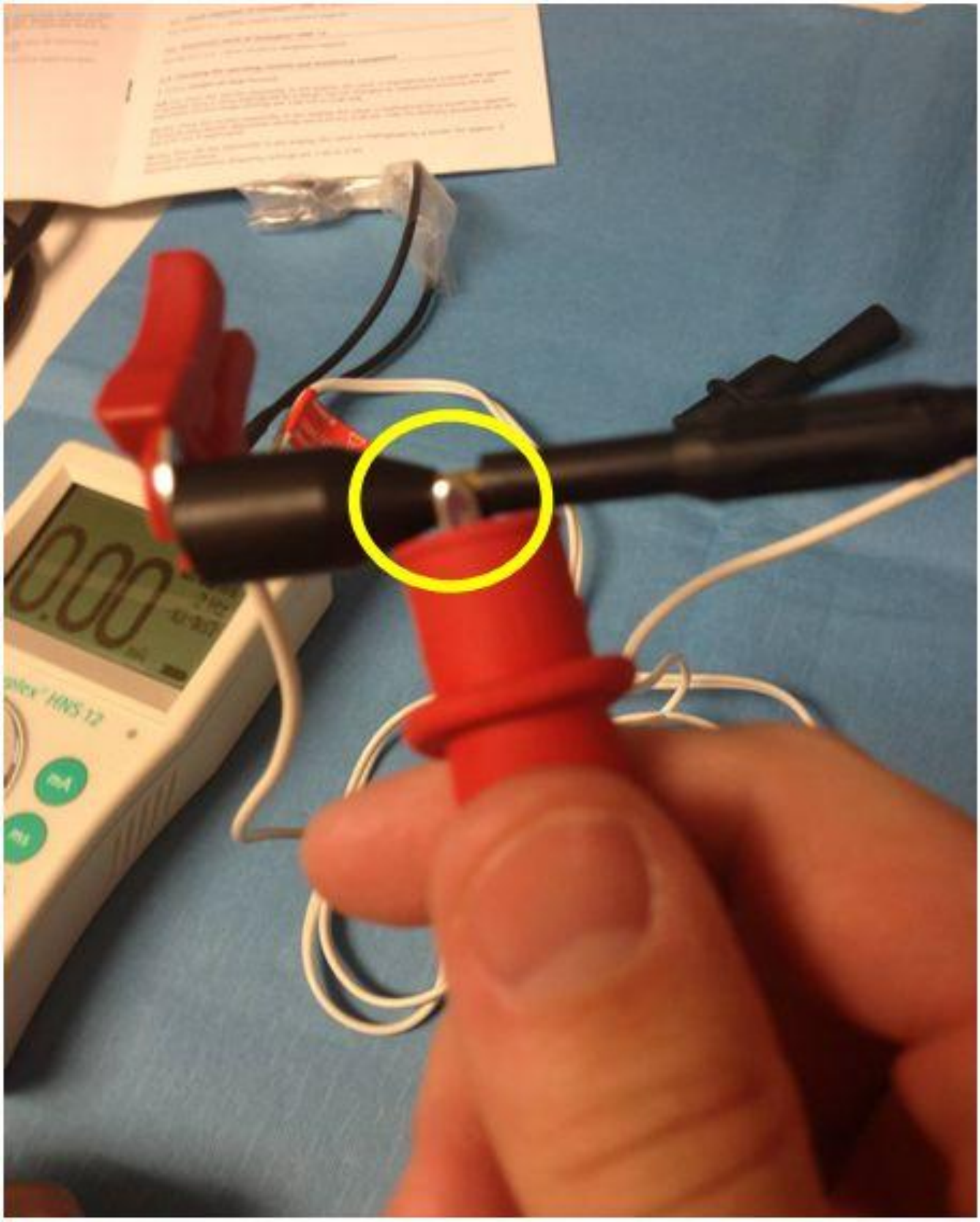


Ensure Multimeter is set to measure resistance, ohms (Ω). The reading should state OL, or openload, when leads are not connected.



Step 1: Connect the cable to the HNS unit and turn on.
Step 2: Attach the ground grip to the 10KΩ resistor.
Step 3: Plug the connector into the resistor.

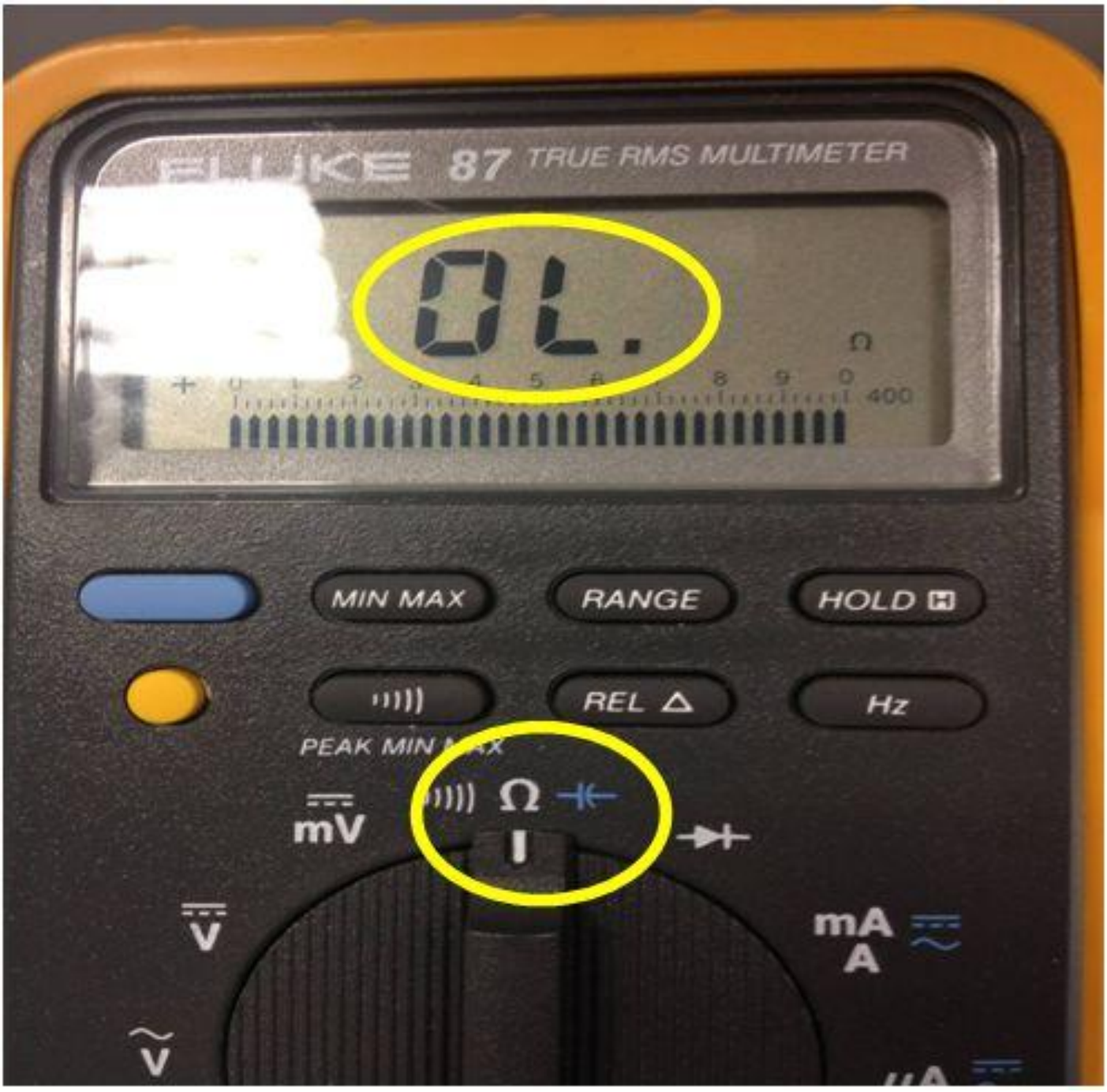
- Note Do Not fully insert connector into the resistor. The male connector should be exposed.



Connect red lead to the exposed brass coupling of the resistor.

- Touch the black lead to the opposite side of the resistor, this should complete the circuit.
- If no measurement displayed, recheck cable connections.

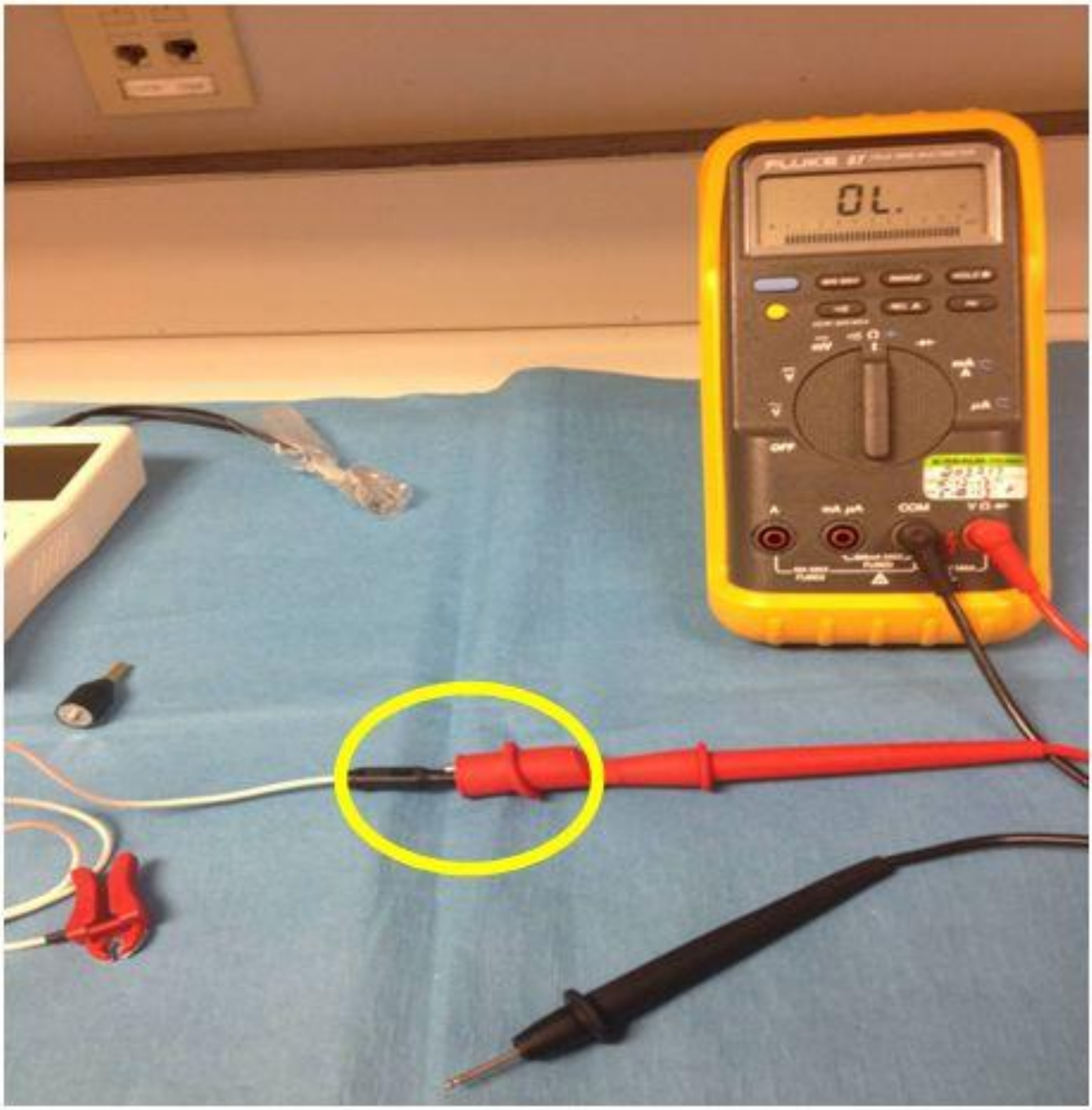
HNS-12 Continuity:
Purpose – Is to ensure each pin on the cable works properly.



- The reading should state OL, or openload, when leads are not connected.
- Ensure multimeter is set to measure resistance ohm (Ώ).

Note: Ensure the range is connect on the multimeter.

Connect red lead to male plug of the cable.



The multimeter should display a resistance valve between 0.1 – 0.9 Ώ.

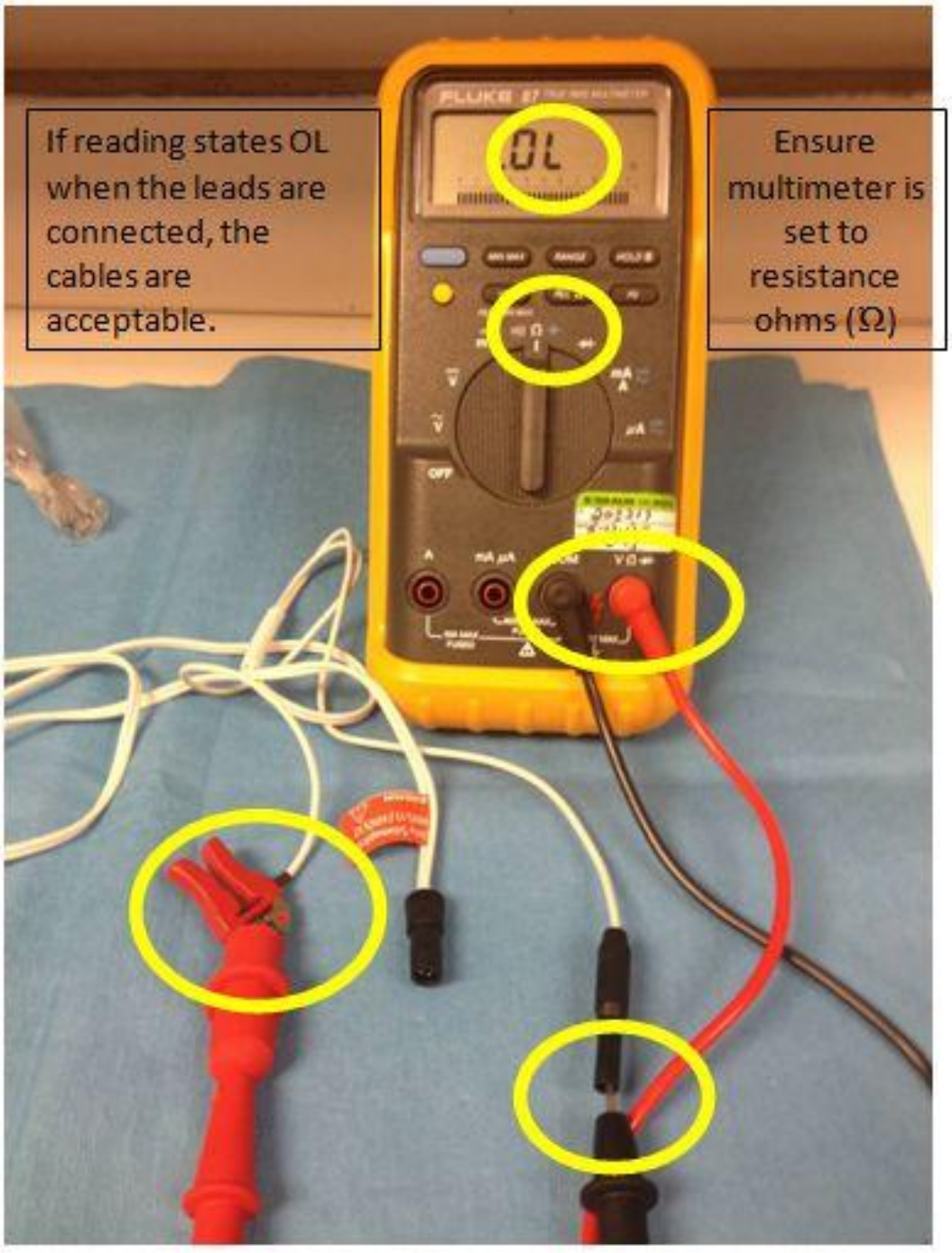
- Touch the black lead to each pin.

Note: Readings will only be present for 2 out of 4 pins. To record the valves of the remaining pins, the red lead must be connected to the ground of the stimulator wire.

If 3 out of 4 or 4 out of 4 pins states OL, the cable is defective.

HNS-12 Short Test:

Purpose – To ensure the entire cable works properly.


If reading states OL when the leads are connected, the cables are acceptable.
Ensure multimeter is set to resistance ohms (Ω)
OL
FLUKE
OFF

- Red lead connected to resistance, black lead to ground.
- Black lead connected to male plug.
- Red lead connected to ground.

If all the rest are performed as stated above with no issues, the simulator is defective.

Continuity Test – Each Pin:

For Stimuplex Electrode Cable (SEC2)
for STIM200 (Reference P/N:333546):
There are four lines that have to be checked in this cable. See Diagram 1 for description of connections. Verify all readings.

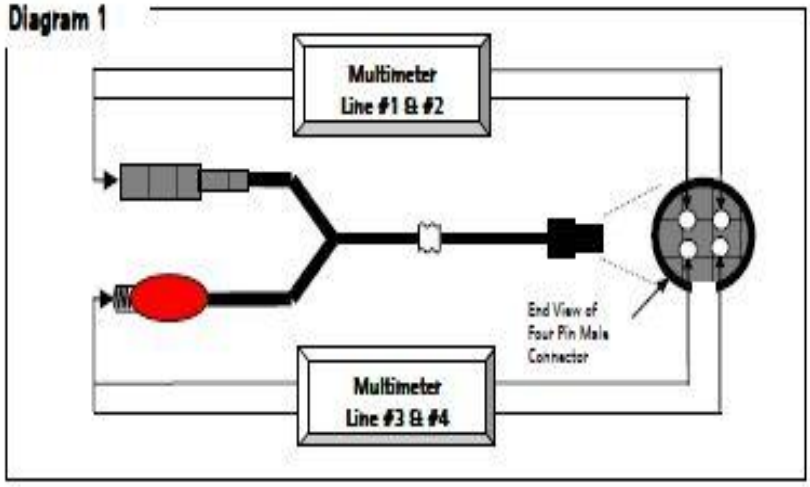
Line #1 reading _____Ohm

Line #2 reading _____Ohm

Line #3 reading _____Ohm

Line #4 reading _____Ohm

Diagram 1

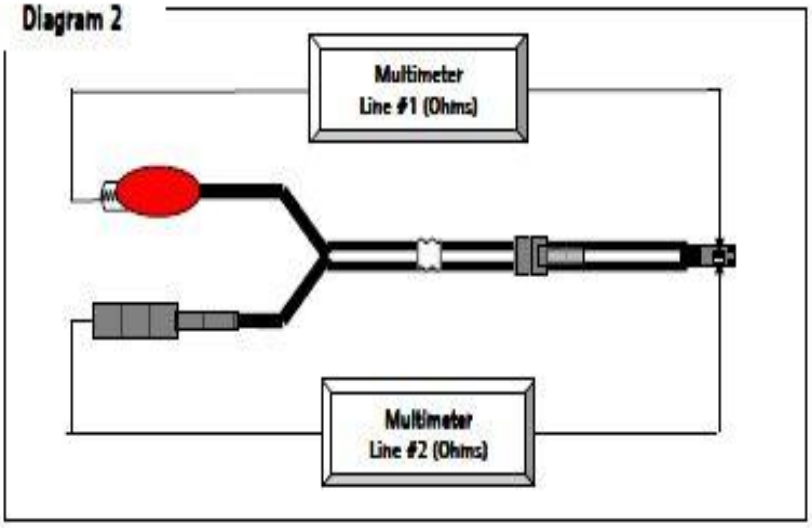


For Stimuplex Electrode Cable (SEC3)
for STIM300 (Reference P/N:333556):
There are two lines that have to be checked in this cable.
See Diagram 2 for description of connections.
Verify both readings.

Line #1 reading _____Ohm

Line #2 reading _____Ohm

Diagram 2



For Stimuplex HNS11/12 Electrode Cable (HEC)
for Stimuplex HNS11/12 (Reference P/N:333576):
There are four lines that have to be checked in this cable.

See Diagram 3 for description of connections.
Verify all readings.

Line #1 reading _____Ohm

Line #2 reading _____Ohm

Line #3 reading _____Ohm

Line #4 reading _____Ohm

Diagram 3